

## SECTION 10160

### METAL TOILET COMPARTMENTS

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#### **LANL MASTER CONSTRUCTION SPECIFICATION**

When editing to suit project, author shall add job-specific requirements and delete only those portions that in no way apply to the activity (e.g., a component that does not apply). To seek a variance from applicable requirements, contact the ESM Architectural POC.

When assembling a specification package, include applicable specifications from all Divisions, especially Division 1, General Requirements.

Delete information within "stars" during editing.

Specification developed for ML-3 / ML-4 projects. For ML-1 / ML-2, additional requirements and QA reviews are required.

This specification meets EPA Green Requirements.

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#### PART 1 GENERAL

##### 1.1 WORK INCLUDED

- A. Furnishing and installation of metal toilet compartments.
- B. Furnishing and installation of urinal screen(s).

##### 1.2 RELATED SECTIONS

- A. Section 10800, Toilet and Bath Accessories

##### 1.3 REFERENCES

- A. ADAAG-98, Accessibility Guidelines for Buildings and Facilities.
- B. ASTM A-167-99, Specification for Steel Sheet, Electrolytic Zinc-Coated, for Light Coating Mass Applications.
- C. FS A-A-60003, Partitions, Toilet, Complete.
- D. EPA (Environmental Protection Agency) CPG (Comprehensive Procurement Guideline), <http://www.epa.gov/cpg>

##### 1.4 SUBMITTALS

- A. Submit the following in accordance with Section 01330, Submittal Procedures:
  - 1. Submit product data for [approval] [information] for materials, fabrications and installation.

2. Submit shop drawings for [approval] [information] for fabrications and erection of partition assemblies not fully described by product data.
3. Submit [standard] [custom] color [samples] [charts] for [approval] [information].

## 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store material in the manufacturer's shipping packages.
- B. Protect material from damage.
- C. Handle material carefully to prevent damage. Unpack and install in a manner to protect the panel finish from damage.

## PART 2 PRODUCTS

### 2.1 PRODUCT OPTIONS AND SUBSTITUTIONS

- A. Comply with Section 01630, Product Options and Substitutions.

### 2.1 GENERAL

- A. Toilet compartments are to be [overhead] [floors] braced type and include dividing panels, doors, fronts, headrail, and hardware.
- B. Handicapped toilet compartments are to comply with ADA requirements.

### 2.2 MANUFACTURERS

- A. Manufacturers offering products that comply with the requirements for metal toilet compartments include:
  1. All American Metal Corporation
  2. Global Steel Products Corporation, Embassy
  3. General Partitions Mfg. Corporation
  4. Sanymetal Products Company, Inc.

### 2.3 MATERIALS

- A. Use sheet steel conforming to ASTM A526 with G90 zinc coating.
- B. Provide attachments, screws and bolts made from stainless steel, tamper proof type; heavy duty extruded aluminum brackets.

- C. Provide hardware with chrome plated non-ferrous cast pivot hinges, gravity type, adjustable for door close positioning; nylon bearings; thumb turn door latch; door strike and keeper with rubber bumper; cast alloy chrome plated coat hook and bumper.
- D. Minimum recovered (recycled) material content 25-30 percent steel from Basic Oxygen Furnace (BOF) process or 100 percent from Electric Arc Furnace (EAF) process in accordance with EPA's CPG.

## 2.4 FABRICATION

- A. Fabricate partitions in accordance with FS A-A-60003.
- B. Fabricate components of steel sheet as follows:
  - 1. Pilasters and Fronts, 20 gage
  - 2. Panels and Screens, 20 gage
  - 3. Doors, 22 gage
  - 4. Concealed Reinforcement for Anchorages, 12 gage
  - 5. Concealed Reinforcement for Tapping, 14 gage
- C. Core Material: Standard sound-deadening honeycomb impregnated kraft paper, in thickness to provide finished dimensions of 1 inch for doors, panels, and urinal screens, and 1 1/4 inch for pilasters and fronts.
- D. Provide pilaster shoes conforming to ASTM A167 Type 304 stainless steel not less than 3 inches high, 20 gage, finish to match the hardware.
- E. Stirrup Brackets: Standard design for attaching panels to walls and pilasters of anodized aluminum to match the hardware finish.
- F. Provide internal reinforcement in areas of attached hardware and fittings.
- G. Hardware and Accessories: Standard design, heavy-duty operating hardware and accessories of nonferrous cast alloy with chrome-plated finish for coat hook/bumper, hinges and locking hardware.
- H. Anchorages and Fasteners: Standard exposed fasteners of stainless steel or brass finished to match hardware. Use theft-resistant (one-way) type heads and nuts for exposed anchorages. Concealed anchors will be hot-dip galvanized cadmium plated or other rust-resistant material.
- I. Overhead Bracing: Continuous anodized aluminum tubing, anti-grip.

## 2.5 FACTORY FINISHING

- A. Clean, degrease and neutralize panels.

- B. Follow with a phosphatizing treatment prime coat and two finish coats of baked enamel of color selected.

## PART 3 EXECUTION

### 3.1 INSPECTION

- A. Verify that site conditions are ready to receive work of this Section, and opening dimensions are as indicated on shop drawings.
- B. Verify correct spacing of toilet fixtures.
- C. Verify correct location of built-in framing, anchorages and bracing, where required.
- D. Do not begin installation, and notify the LANL Construction Inspector, if existing conditions will adversely affect acceptable results.

### 3.2 INSTALLATION

- A. Install partitions secure, plumb and level, in accordance with approved shop drawings.
- B. Maintain 1 inch space between wall and panels, and 3/8 to 1/2 inch between wall and end pilasters.
- C. Attach panel brackets securely to walls using anchor devices.
- D. Attach panels and pilasters to brackets with through sleeve theft-proof bolts and nuts.
- E. Anchor urinal screen panel to wall with two panel brackets and vertical upright consisting of 12 inch wide pilaster stock and socket anchored to floor.
- F. Provide adjustment for floor variations with screw jack through steel saddles integral with pilaster. Conceal floor fasteners with pilaster shoes.
- G. Equip doors with 2 hinges, 1 door latch, and 1 coat hook and bumper.
- H. Install door strike and keeper with door bumper on pilaster in alignment with door latch.
- I. Adjust hinges to locate door in full closed position when latched.

### 3.3 ADJUSTING

- A. Adjust and align hardware to uniform clearance at vertical edge of doors, not exceeding 3/16 inch.

### 3.4 CLEANING

- A. Remove protective maskings, clean surfaces.
- B. Replace damaged or scratched materials with new materials.

END OF SECTION

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Do not delete the following reference information:

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FOR LANL USE ONLY

This project specification is based on LANL Master Construction Specification Rev. 1, dated June 30, 2003.